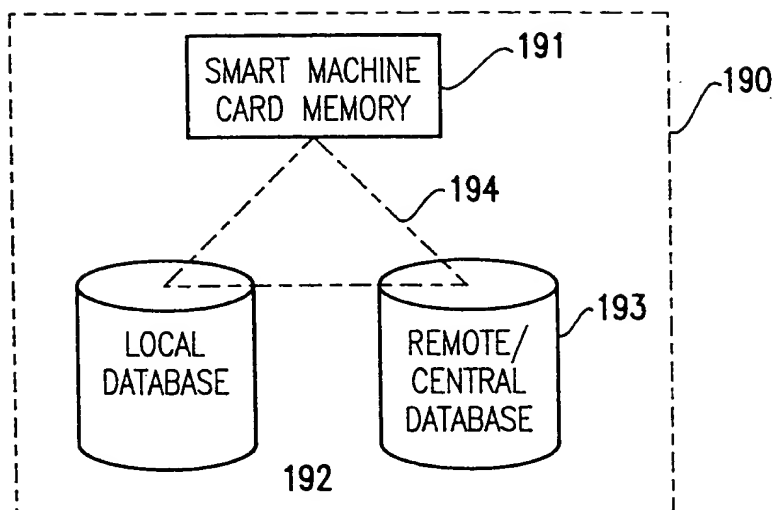


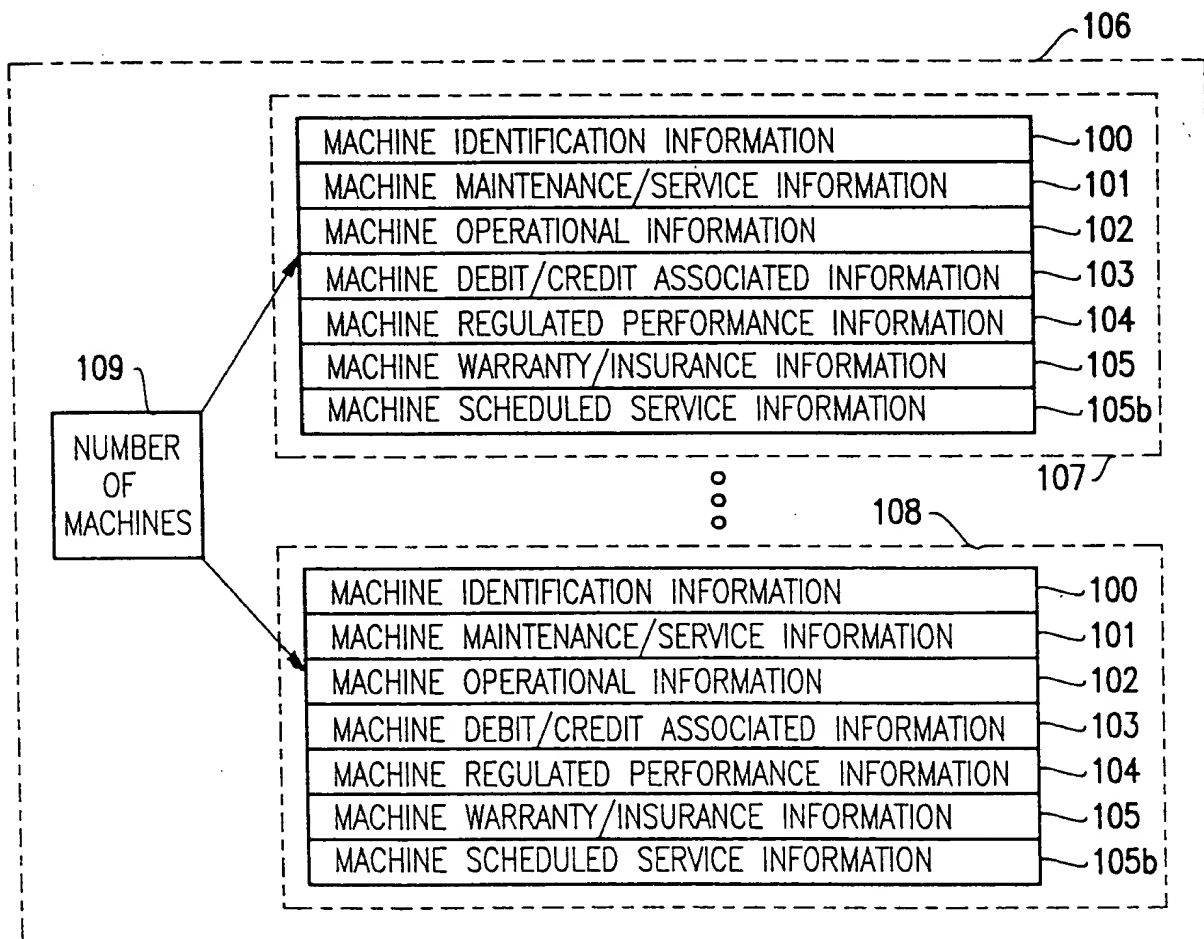
ENTITY RELATIONSHIP DIAGRAM

FIG. 1



STORAGE OF DATA ON THE SMART MACHINE CARD, LOCAL AND REMOTE/CENTRAL DATABASE

FIG.2



TOP LEVEL DATA STRUCTURE FOR MULTIPLE MACHINES ON A SMART MACHINE CARD

FIG.3

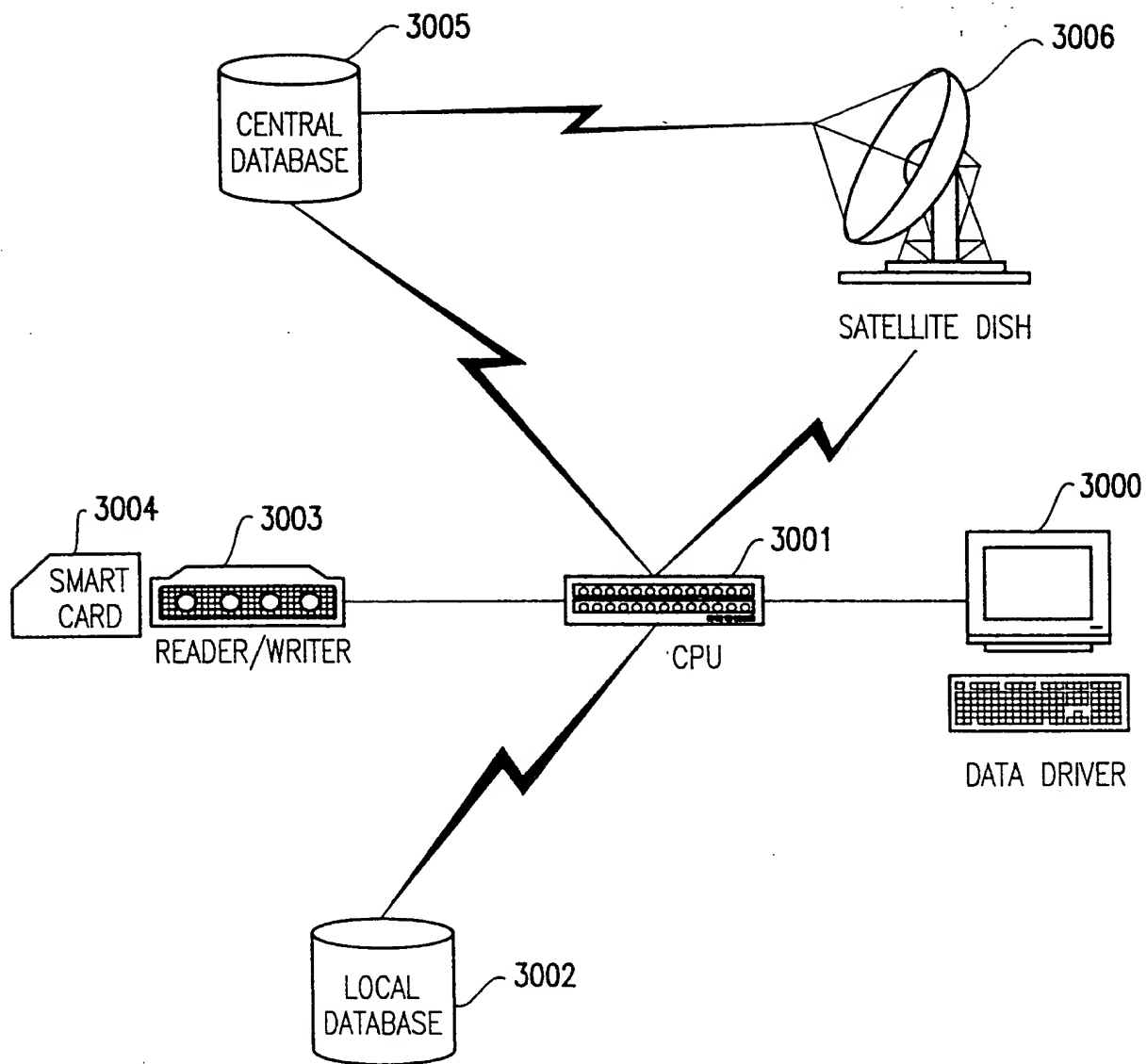
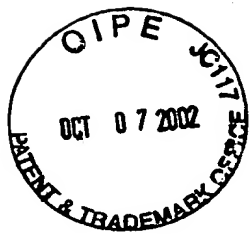
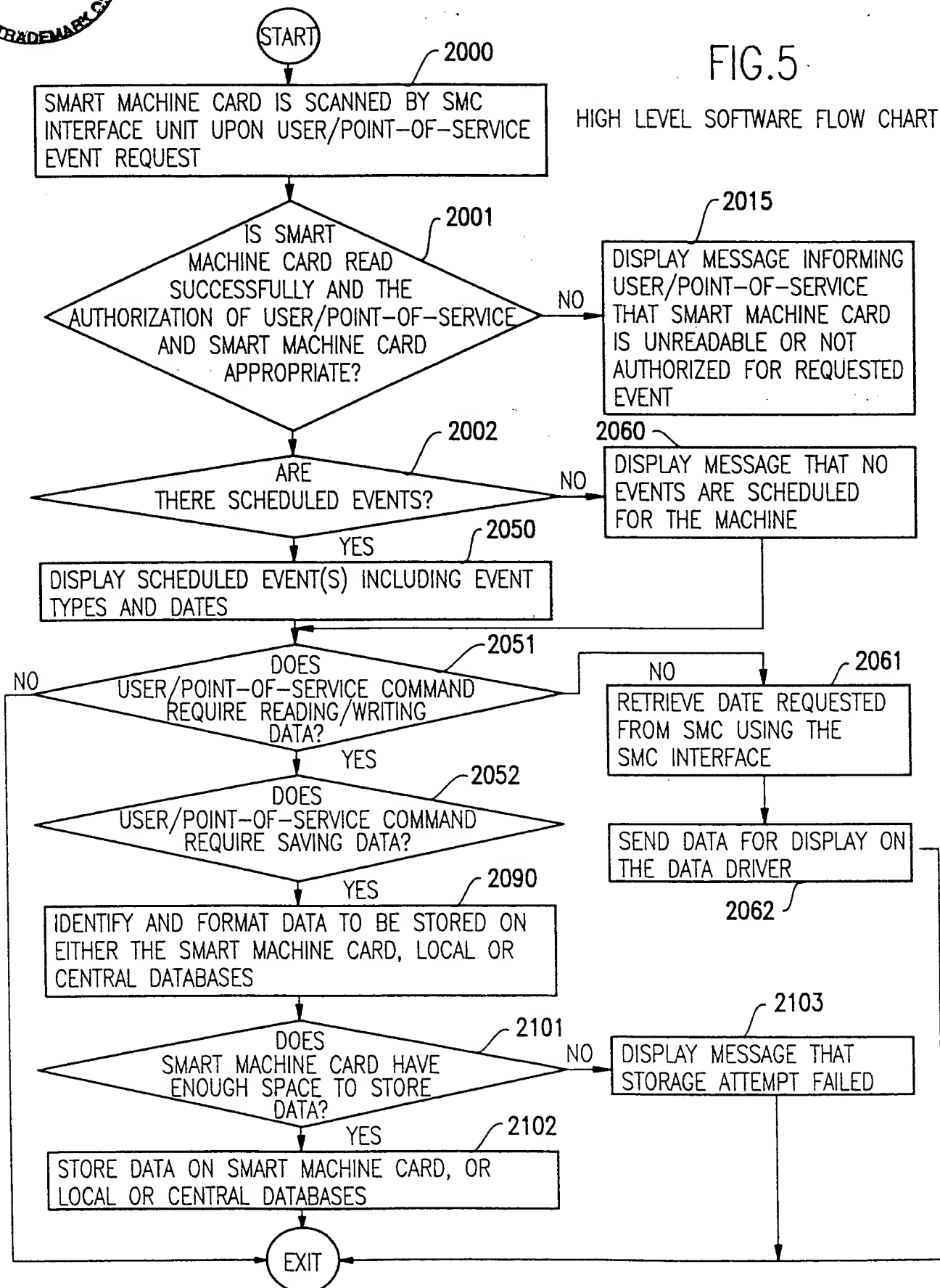


FIG.4



FIG.5

HIGH LEVEL SOFTWARE FLOW CHART





MAKER IDENTIFICATION CODE	200
DATE OF PRODUCTION	201
LOCATION OF PRODUCTION	202
MODEL CODE	203
SERIAL NUMBER	204
SMART MACHINE CARD SERVICING CODE	205
MACHINE'S OPERATOR IDENTIFICATION INFORMATION	206
PRIMARY OWNER NAME	207
PRIMARY OWNER IDENTIFICATION NUMBER	208
PRIMARY OWNER PASSWORD	209
DATE OF PURCHASE	210
NUMBER OF SECONDARY OPERATORS	211
SECONDARY OPERATORS NAMES	212
SECONDARY OPERATORS IDENTIFICATION NUMBERS	213
SECONDARY OPERATORS PASSWORDS	214
MACHINE'S FORMER OWNER'S NUMBER	215
FORMER OWNERS NAMES	216
FORMER OWNERS IDENTIFICATION NUMBERS	217
FORMER OWNERS DATE OF PURCHASE	218
MACHINE'S AUTHORIZATION	219
LOCATION OF SALE	220

MACHINE IDENTIFICATION INFORMATION

FIG.6



NUMBER OF SCHEDULED SERVICE TRANSACTIONS	230
SERVICE TRANSACTION CODE	231
SERVICE TRANSACTION DATE	232
TIME CODE IN THE MACHINE LIFE-TIME	233
SERVICE RECOMMENDER IDENTIFICATION CODE	234
SCHEDULED SERVICE IDENTIFICATION NUMBER	235

MACHINE SCHEDULED SERVICE INFORMATION

FIG.7A

SERVICE PROVIDER IDENTIFIER NUMBER	250
DATE OF SERVICE	251
PROVIDER'S AUTHORIZATION CODE	262
SERVICE REPORT INFORMATION	252
COMPONENT SERIAL NUMBER	253
COMPONENT MAKER CODE	254
SERVICE CODE	255
COST OF COMPONENT	256
WARRANTY CODE ON COMPONENT/LABOR	257
LABOR COST	258
MISCELLANEOUS COST	259
CAUSE OF FAILURE CODE	260
TIME CODE IN THE MACHINE LIFE-TIME	261
ACTUAL SERVICE PROVIDER'S NUMBER	263

MACHINE MAINTENANCE INFORMATION

FIG.7B

OPERATIONAL TRANSACTION NUMBER	300
TRANSACTION CODE	301
TRANSACTION DATE	302
TRANSACTION COST	303
TRANSACTION PROVIDER IDENTIFICATION CODE	304
TRANSACTION AMOUNT	305

MACHINE OPERATIONS INFORMATION

FIG.8



DEBIT/CREDIT GRANTOR IDENTIFICATION CODE	350
DEBIT/CREDIT ISSUE DATE	351
DEBIT/CREDIT EXPIRATION DATE	352
DEBIT/CREDIT LIMITATION CODES	353
DEBIT/CREDIT EXCLUSION CODES	354
DEBIT/CREDIT AMOUNT LEFT ON MACHINE'S ACCOUNT BALANCE	355
DEBIT/CREDIT PASSWORD	356
DEBIT/CREDIT TRANSACTIONS RECORDS	357
DEBIT/CREDIT TRANSACTION CODE	358
DATE/TIME OF TRANSACTION	359
PROVIDER IDENTIFICATION CODE	360
DEBIT/CREDIT TRANSACTION AMOUNT	361
SERVICE CODE	362
DEBIT/CREDIT TYPE CODE	363

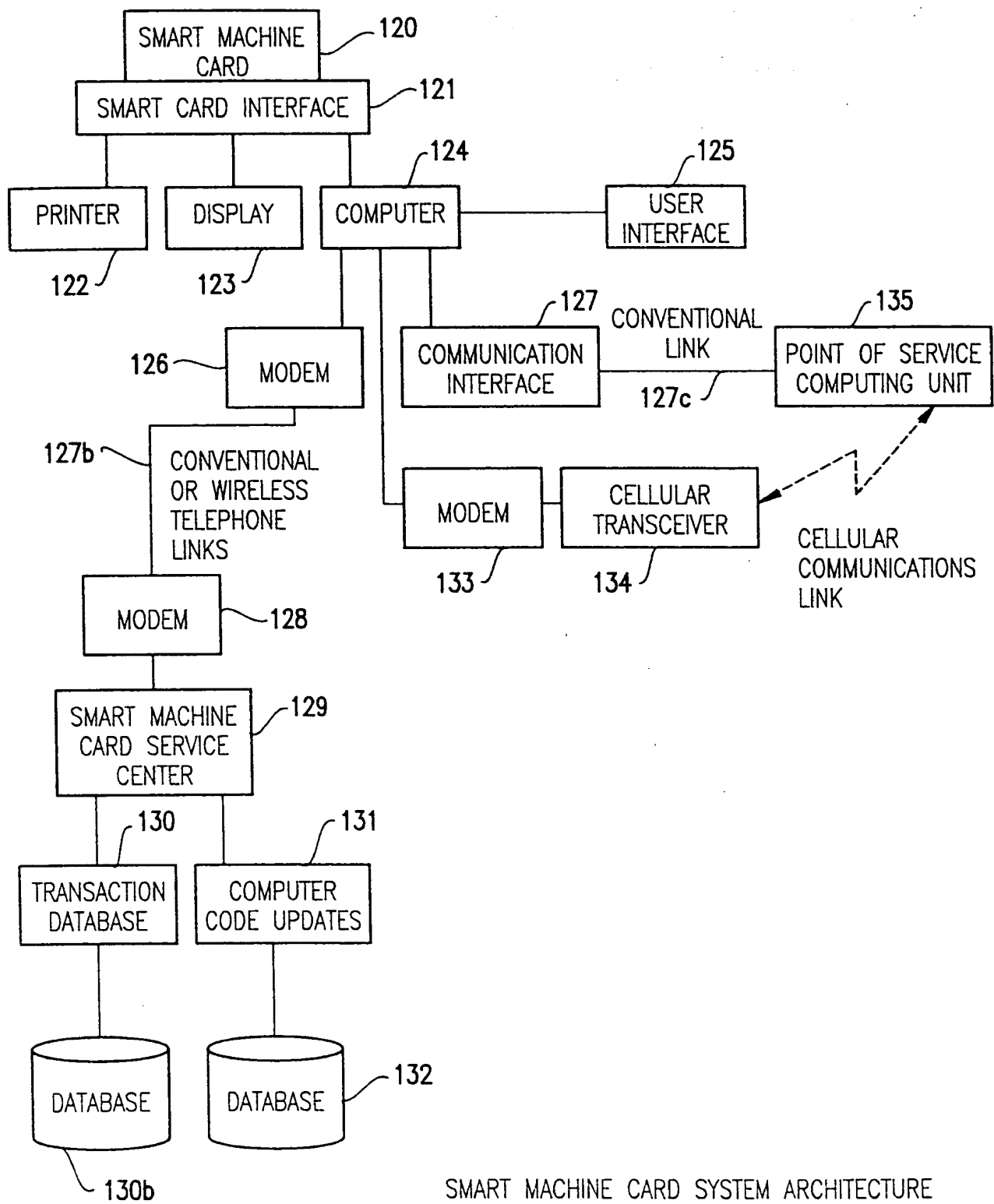
FIG.9 MACHINE DEBIT/CREDIT ASSOCIATED INFORMATION

REGULATOR'S IDENTIFICATION CODE	400
MACHINE'S IDENTIFIER IN REGULATORY RECORDS	401
REGULATORY ARTICLE NUMBERS THAT APPLY TO THE MACHINE	402
REGULATORY COMPLIANCE RECORDS	403
REGULATORY CODE	404
COMPLIANCE AMOUNT	405
DATE/TIME OF DETECTION	406
DATE/TIME OF COMPLIANCE	407
EXAMINER'S IDENTIFICATION CODE	408

FIG.10 MACHINE MAINTENANCE INFORMATION

WARRANTY/INSURANCE GRANTOR IDENTIFICATION CODE	450
WARRANTY/INSURANCE STARTING DATE	451
WARRANTY/INSURANCE EXPIRATION DATE	452
WARRANTY/INSURANCE LIMITATION CODES	453
WARRANTY/INSURANCE EXCLUSION CODES	454
WARRANTY/INSURANCE SERVICE RECORDS	455
WARRANTY/INSURANCE SERVICE CODE	456
DATE OF SERVICE	457
PROVIDER IDENTIFICATION CODE	458

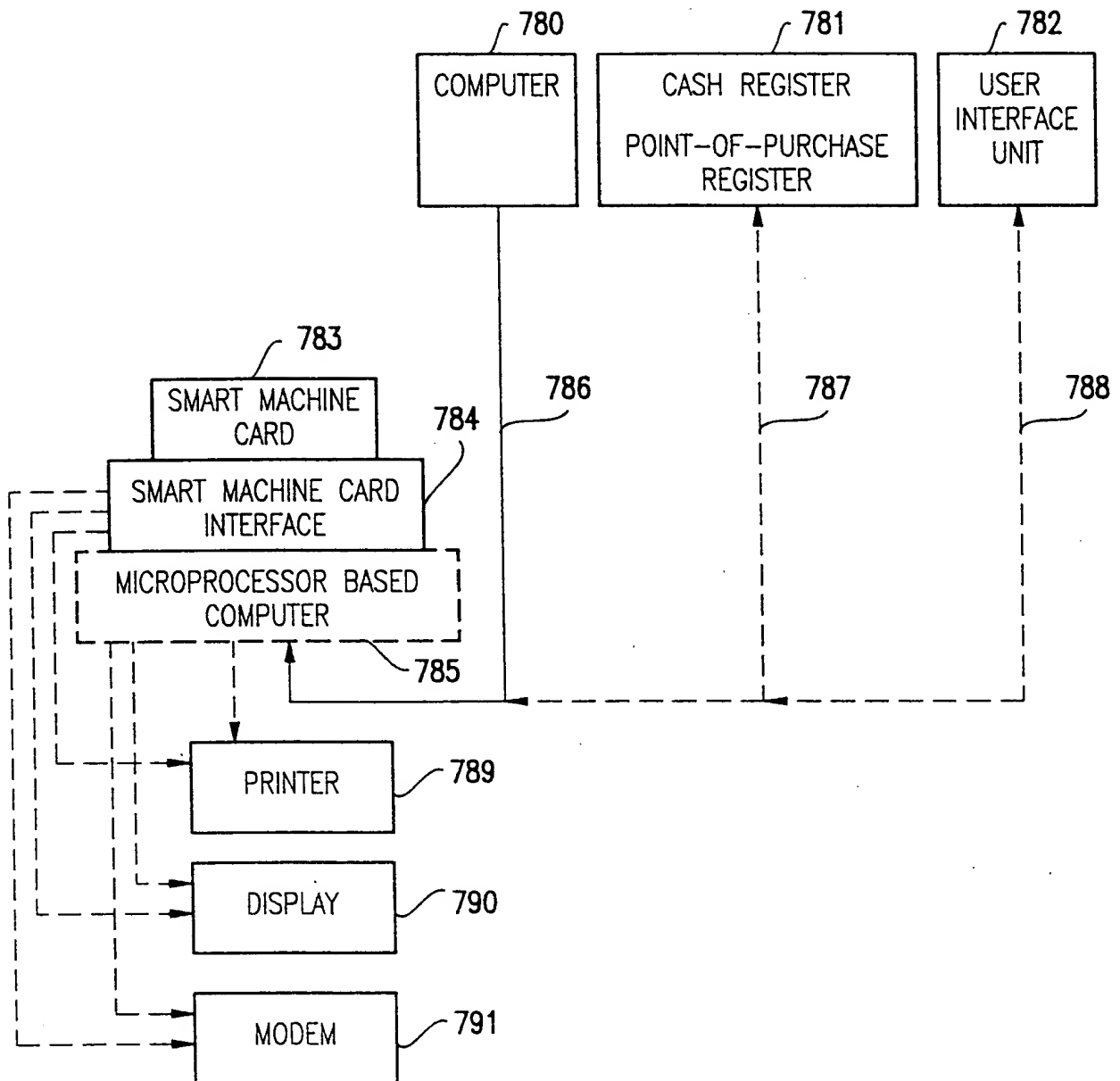
FIG.11 MACHINE WARRANTY/INSURANCE INFORMATION



SMART MACHINE CARD SYSTEM ARCHITECTURE

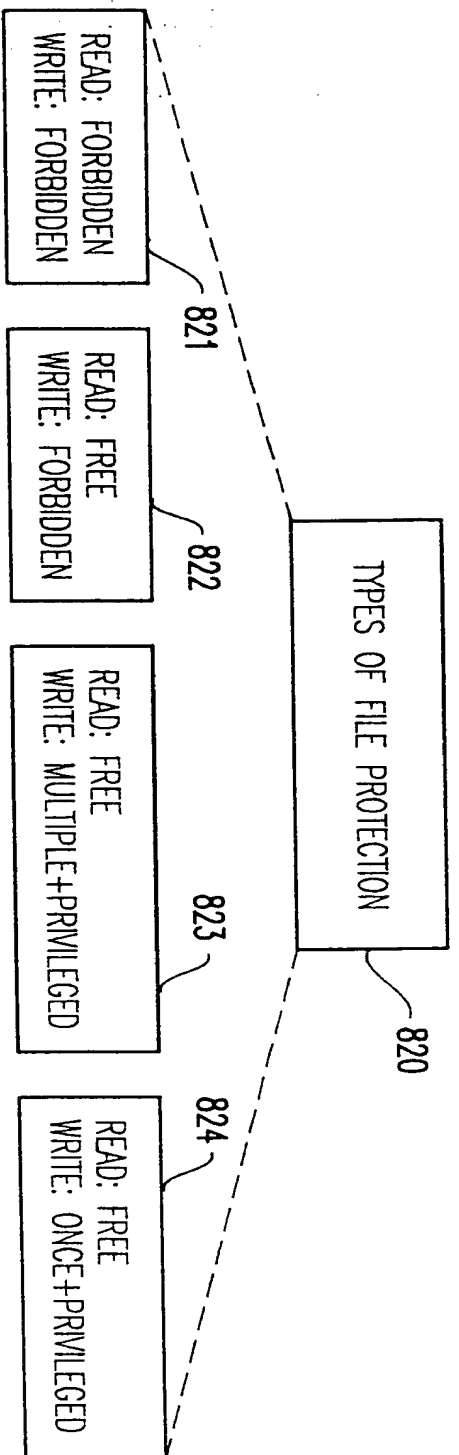
FIG.12





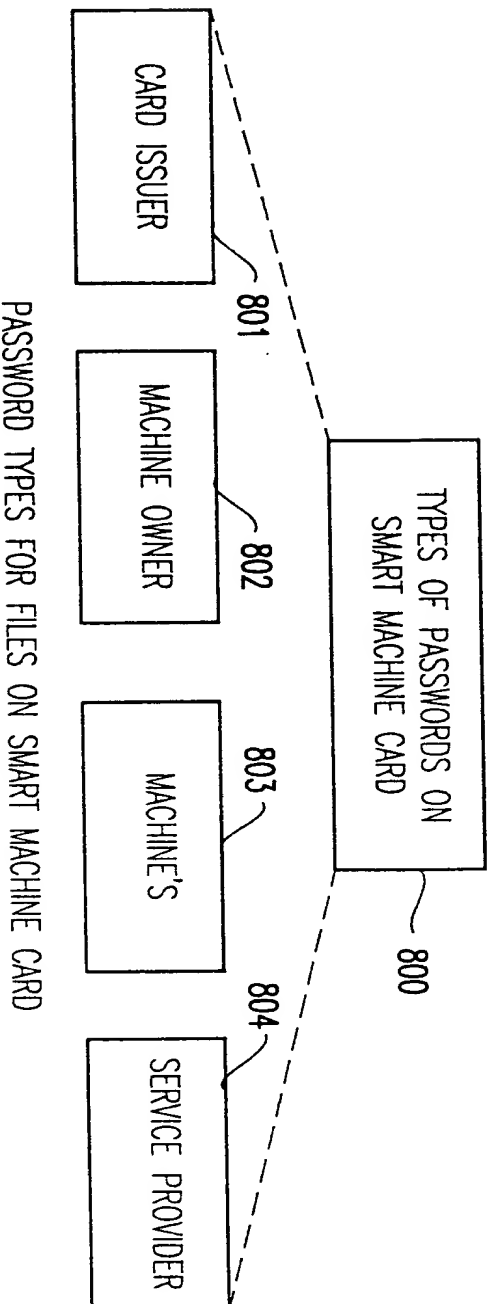
SMART MACHINE CARD POINT OF SERVICE ARCHITECTURE

FIG.13



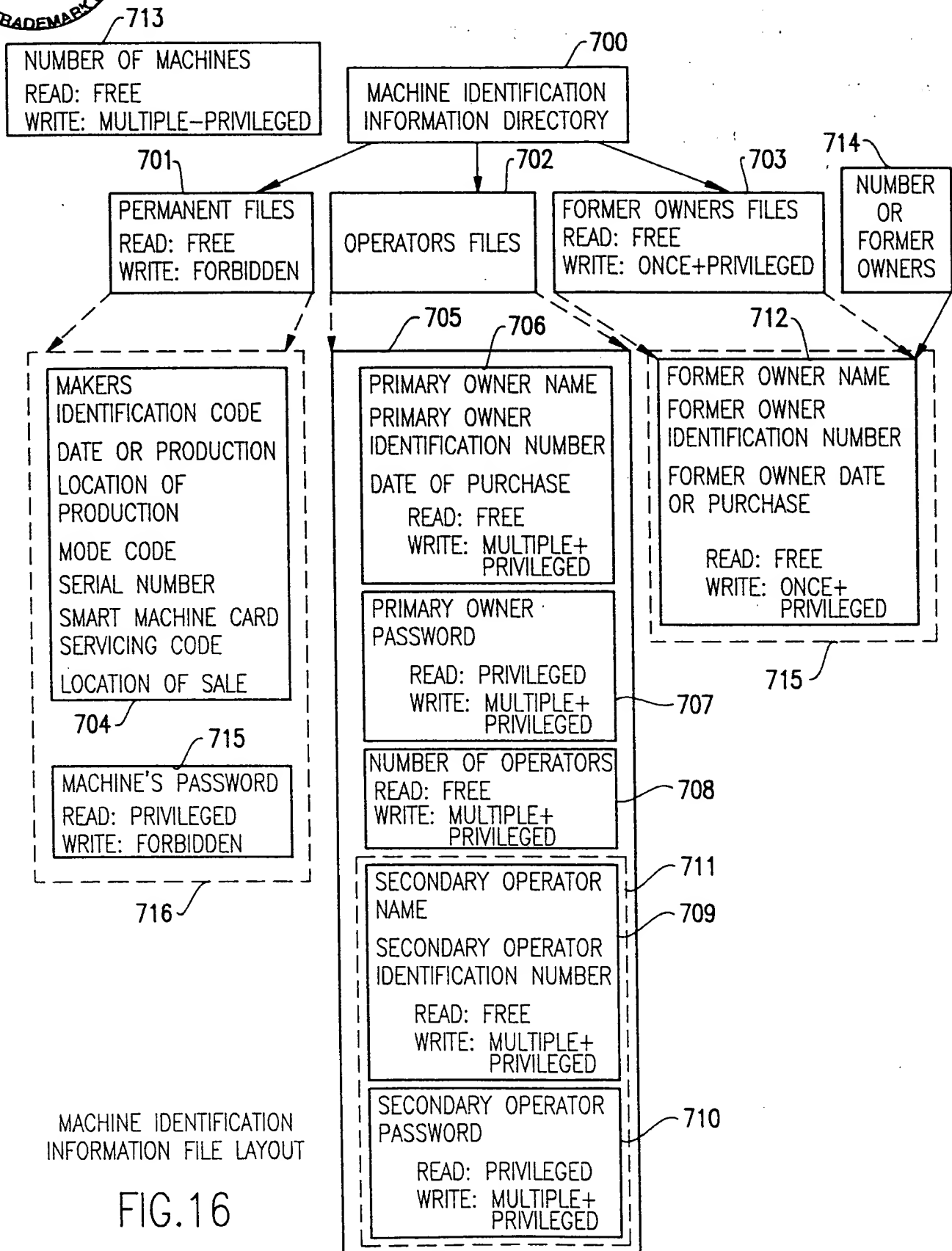
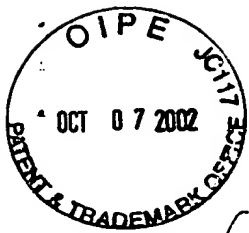
PROTECTION TYPES FOR FILES ON SMART MACHINE CARD

FIG. 14



PASSWORD TYPES FOR FILES ON SMART MACHINE CARD

FIG. 15



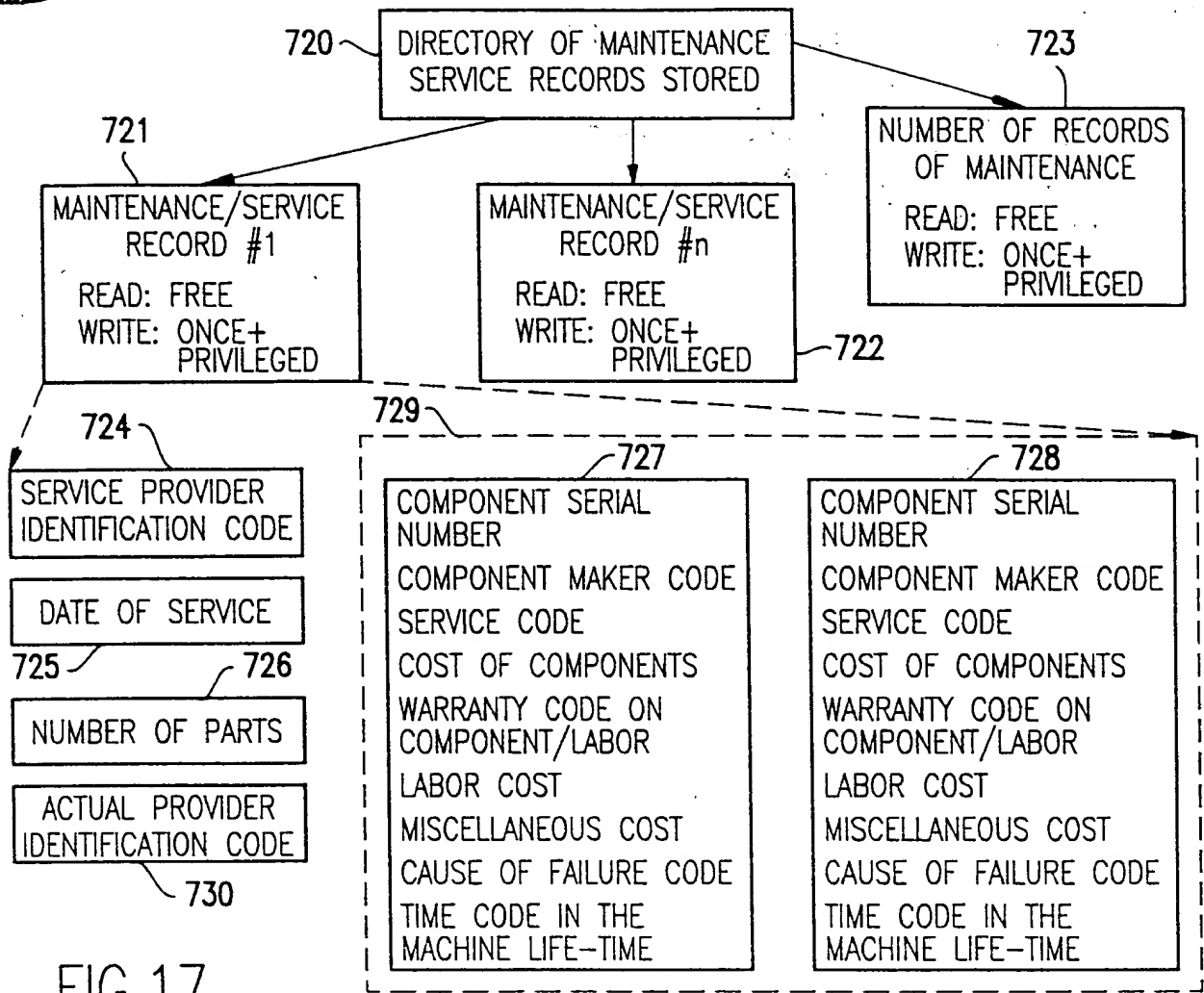


FIG. 17

MACHINE MAINTENANCE INFORMATION FILE LAYOUT

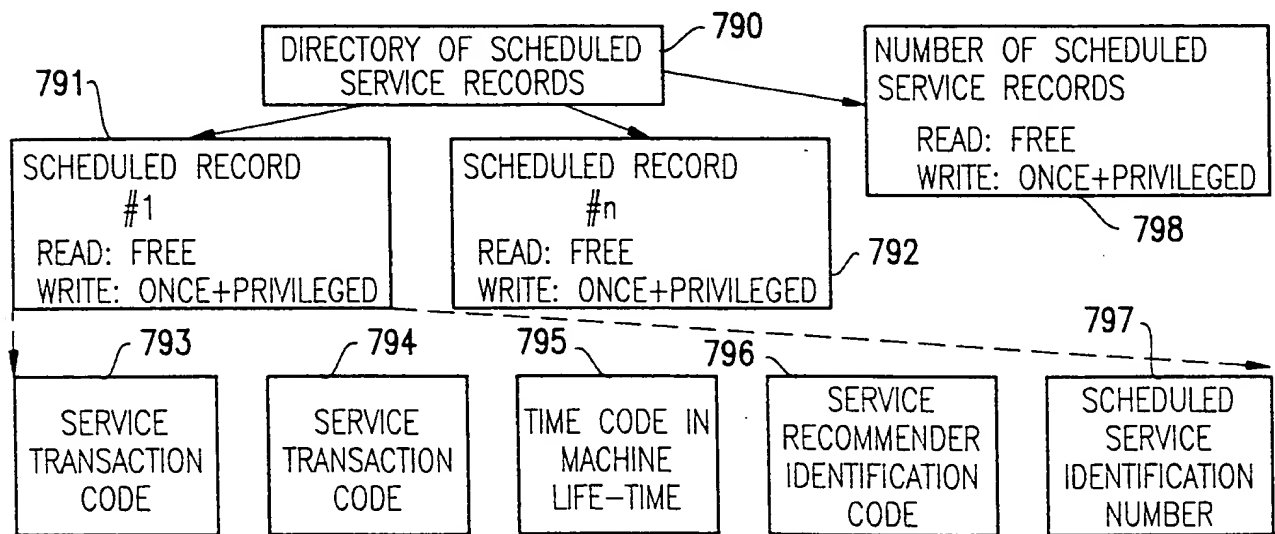


FIG. 17A

MACHINE SCHEDULED SERVICE INFORMATION FILE LAYOUT

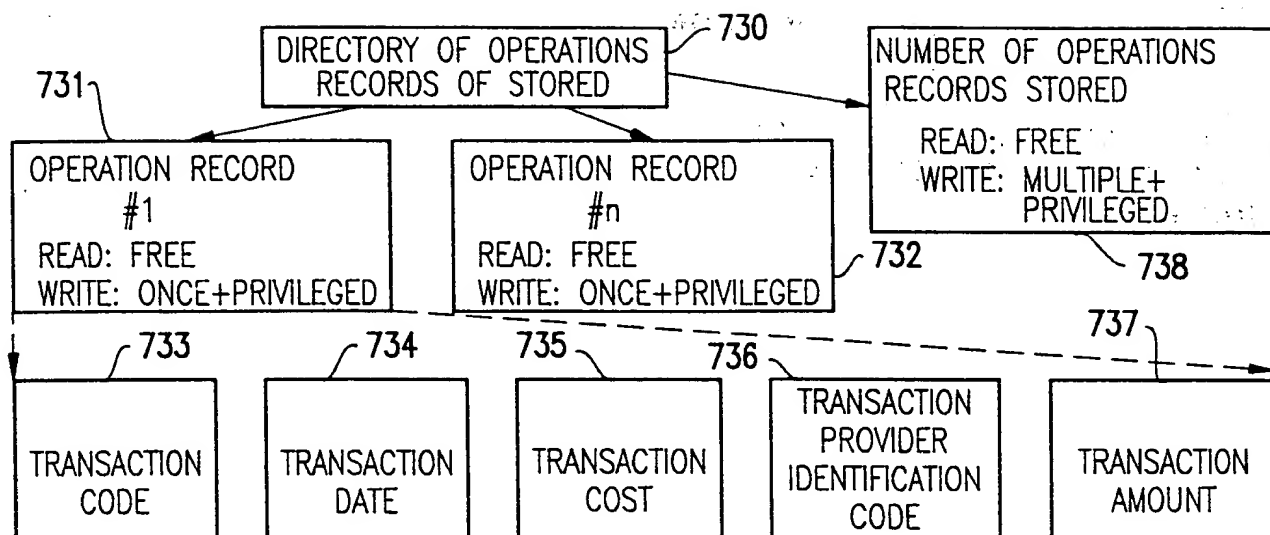


FIG. 18

MACHINE OPERATIONS INFORMATION FILE LAYOUT

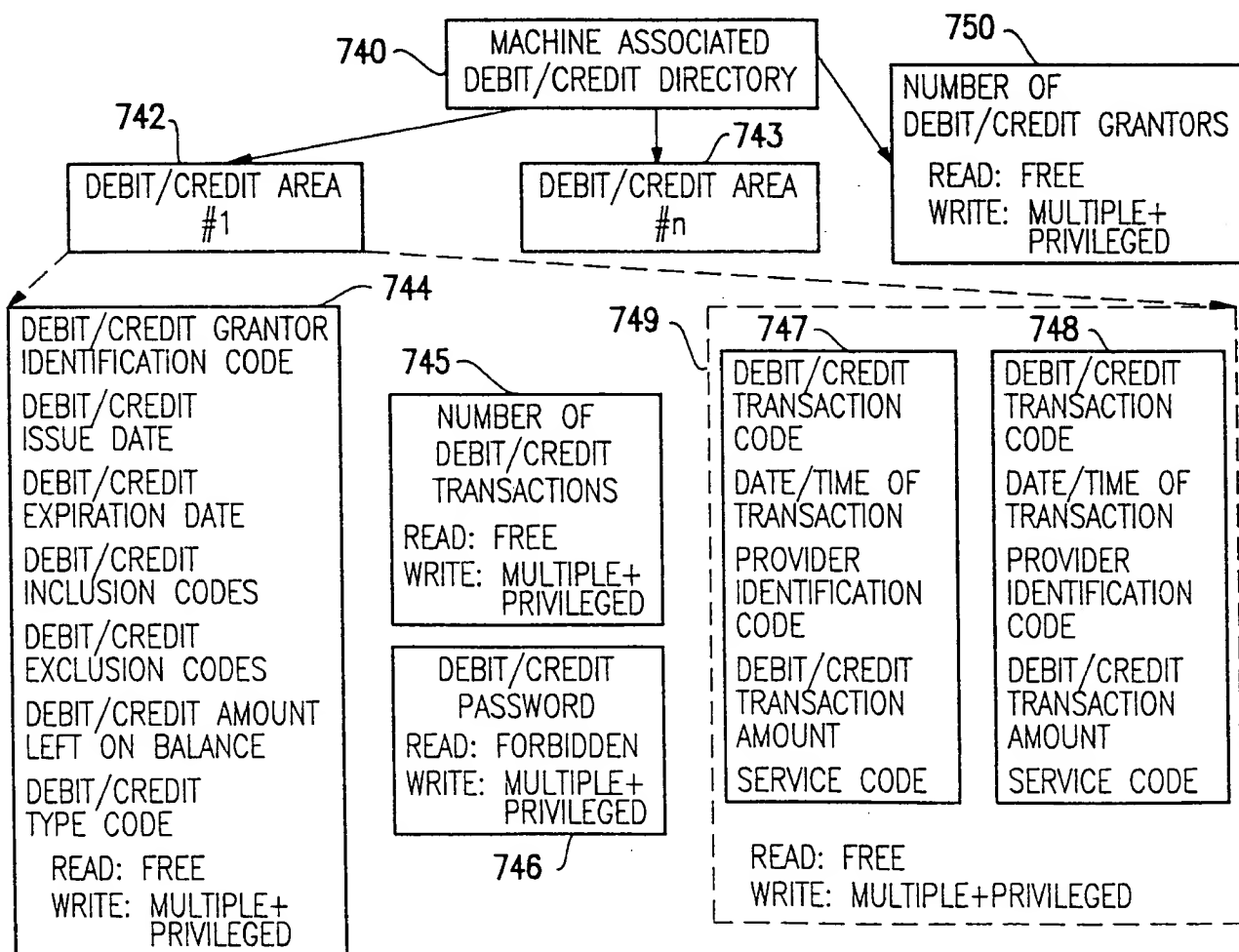
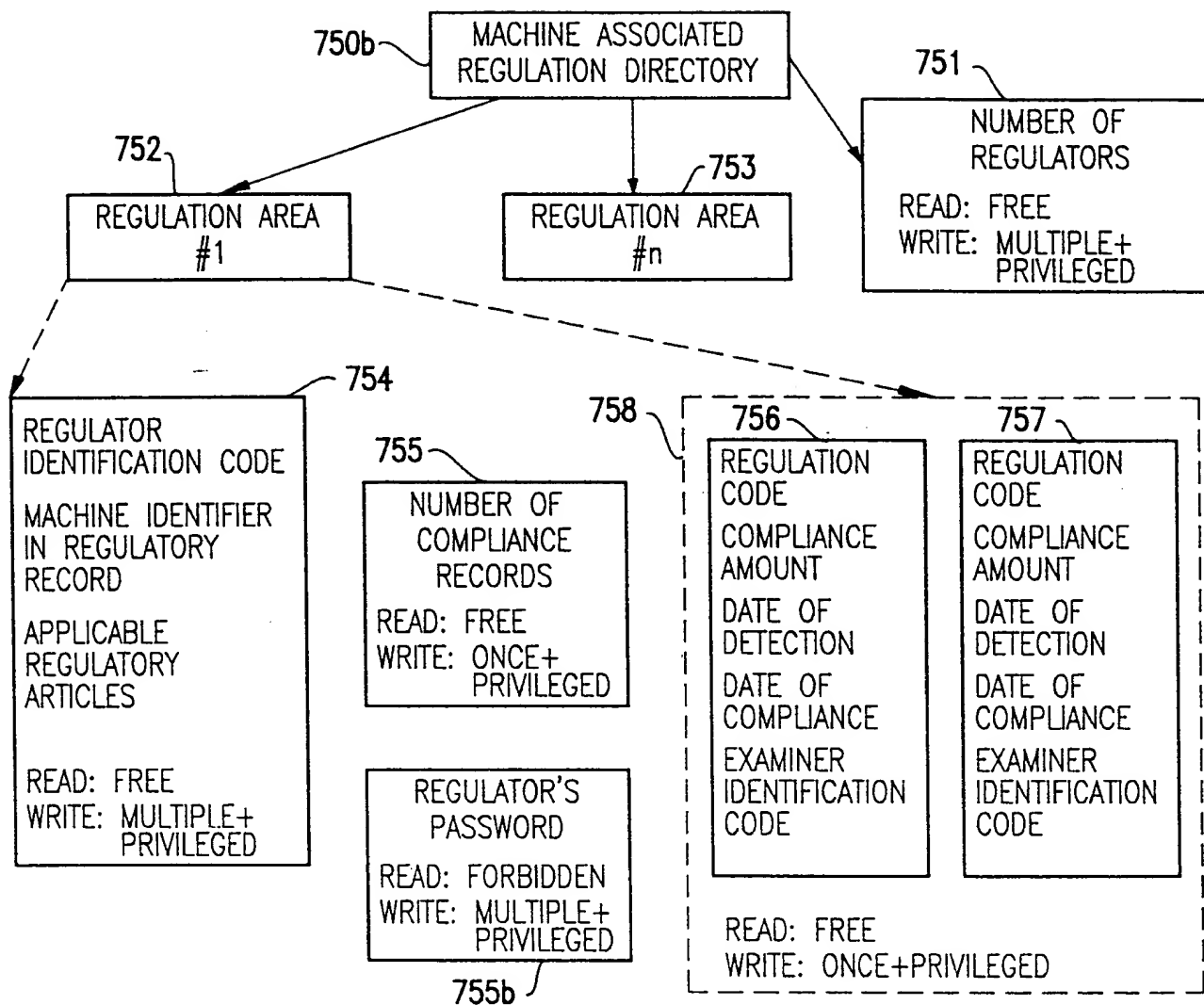


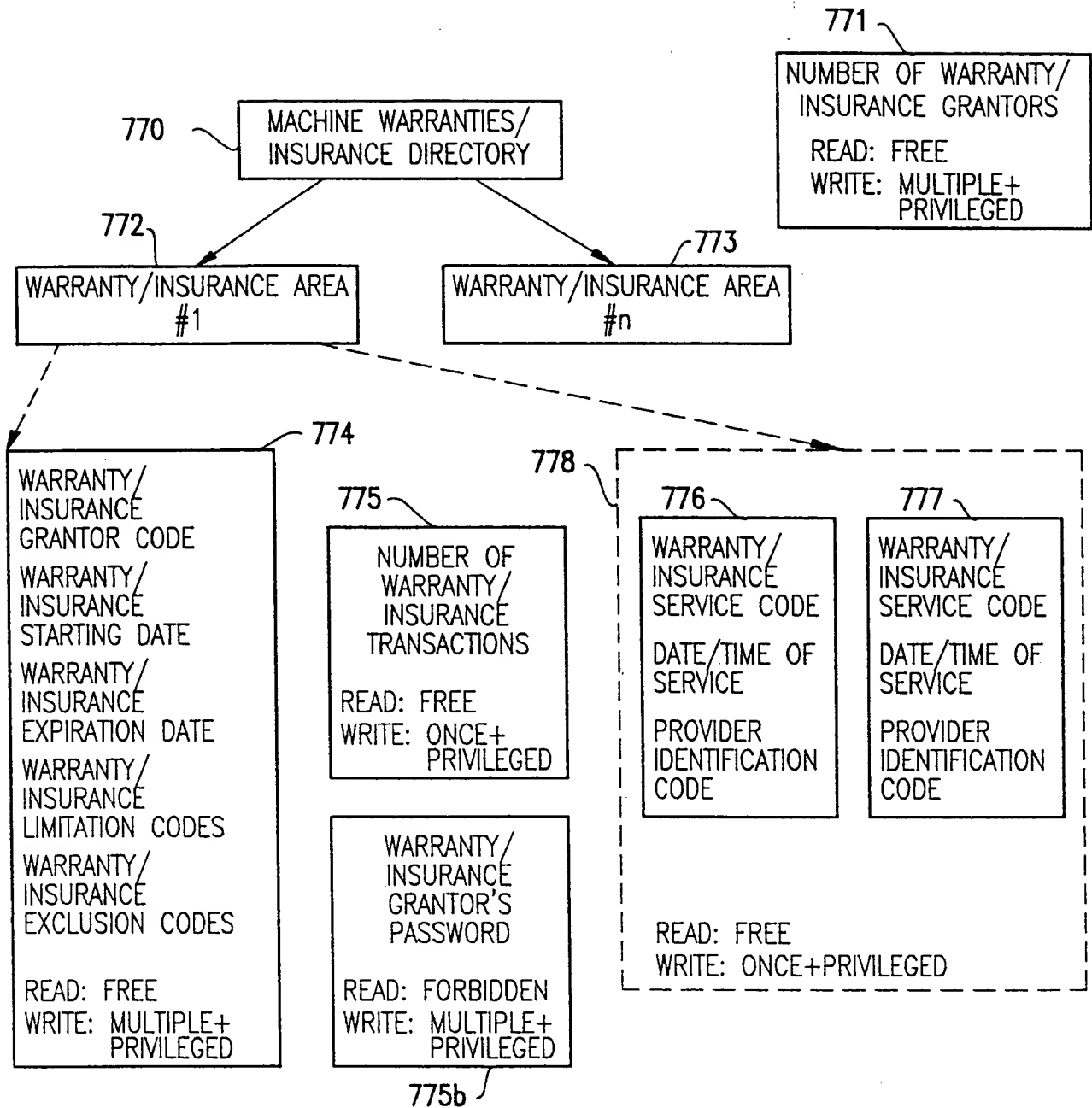
FIG. 19

MACHINE ASSOCIATED DEBIT/CREDIT INFORMATION FILE LAYOUT



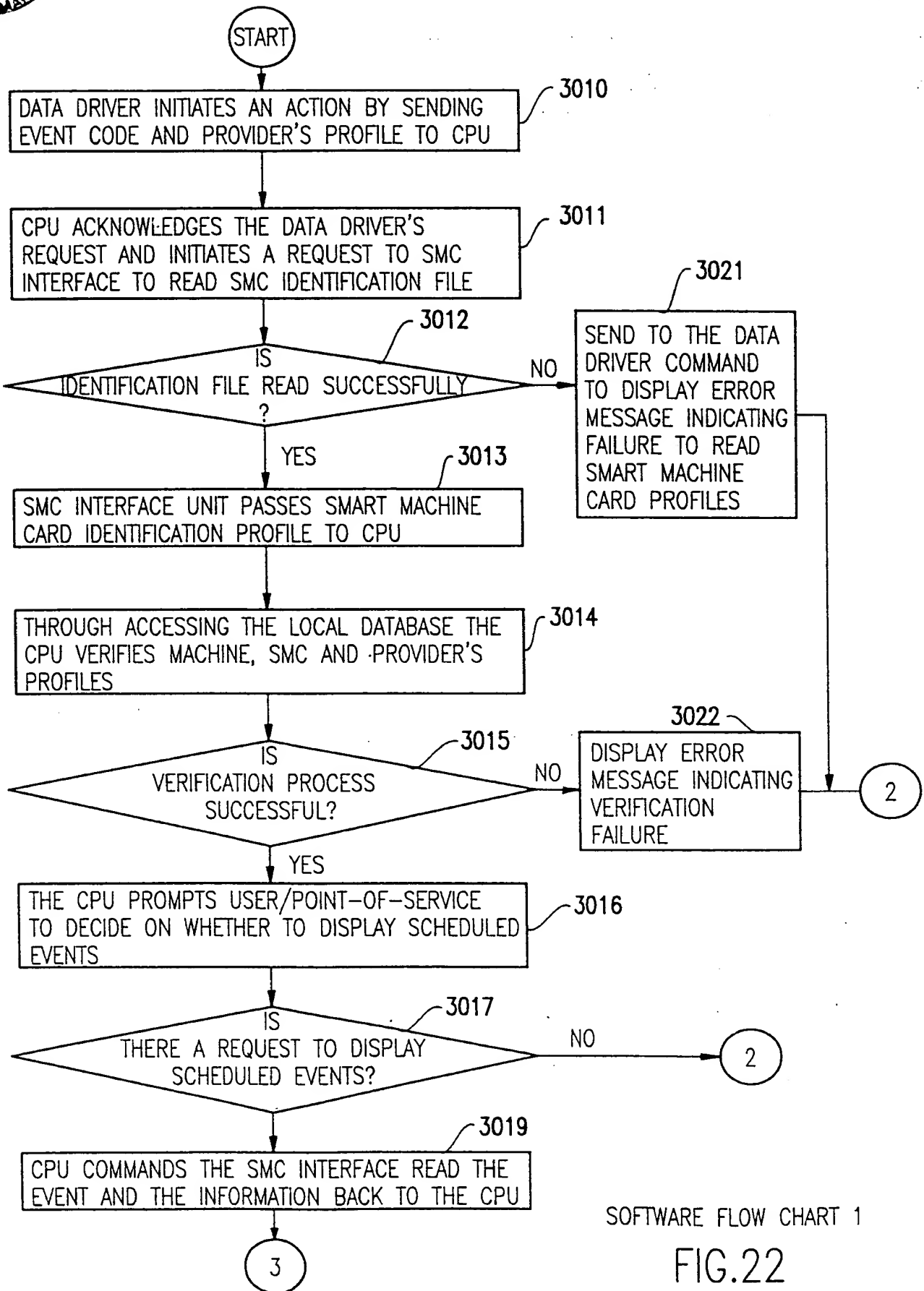
MACHINE REGULATED PERFORMANCE INFORMATION FILE LAYOUT

FIG.20



MACHINE WARRANTY/INSURANCE INFORMATION FILE LAYOUT

FIG. 21



SOFTWARE FLOW CHART 1

FIG.22



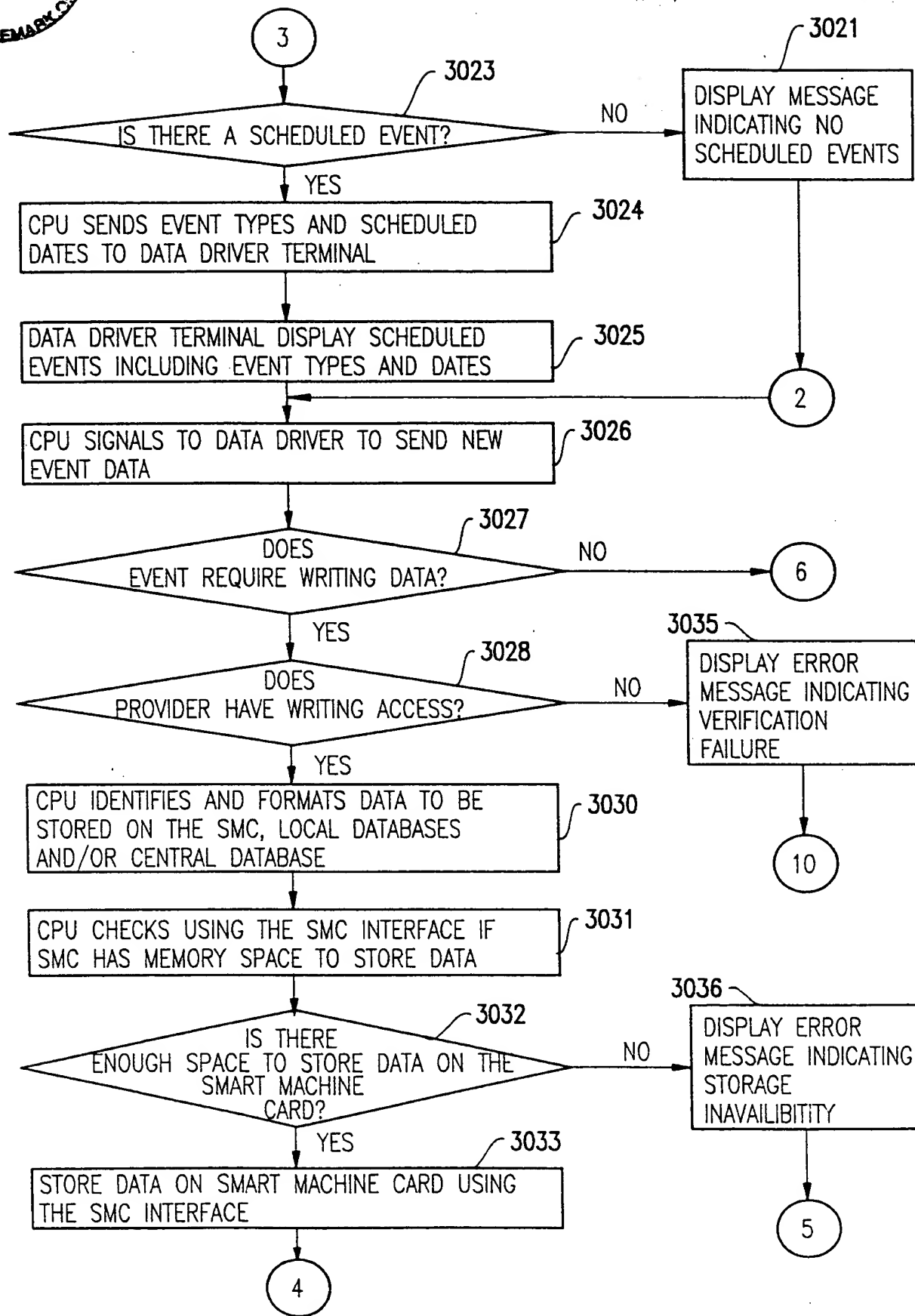
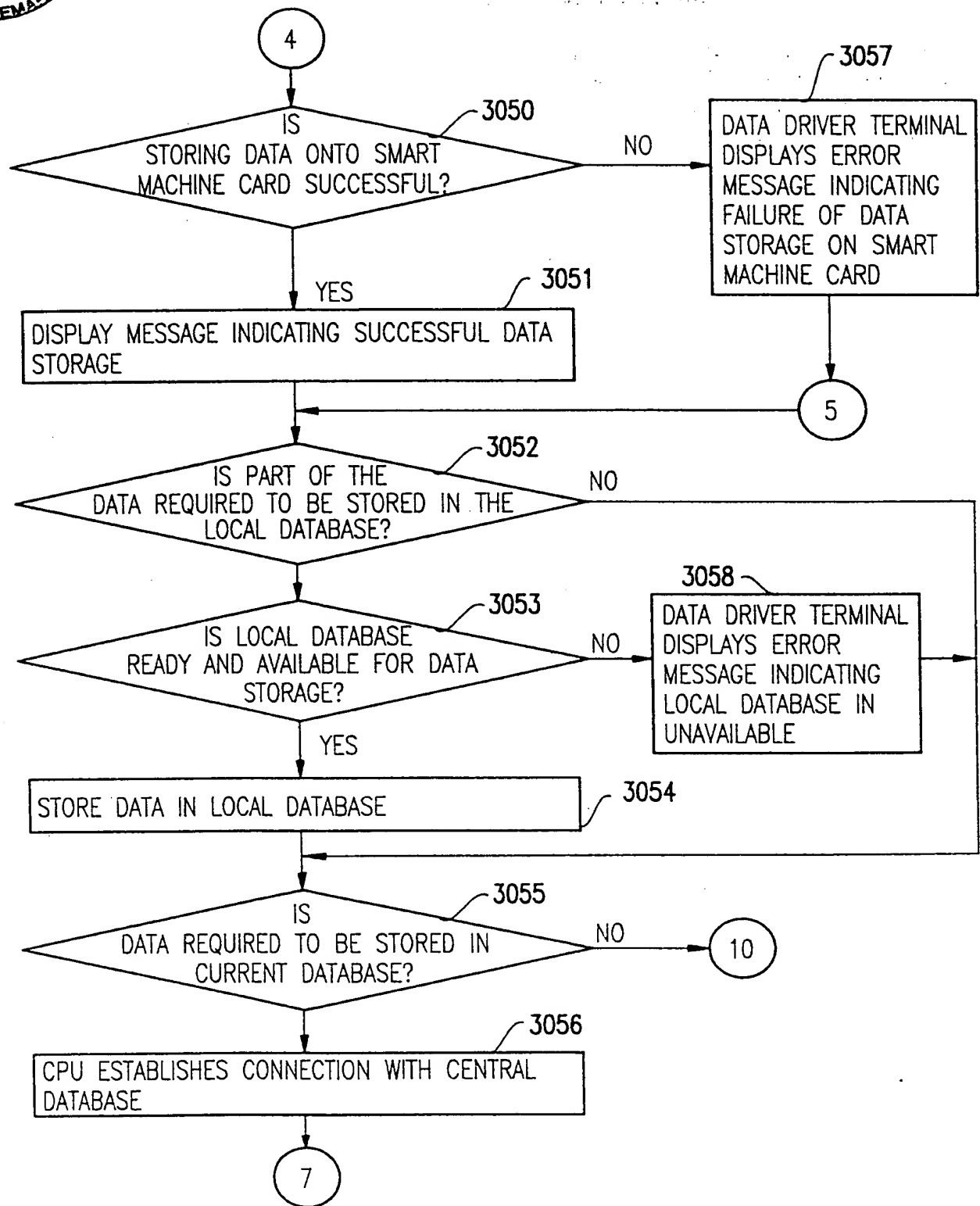


FIG.23

SOFTWARE FLOW CHART 2



SOFTWARE FLOW CHART 3

FIG.24

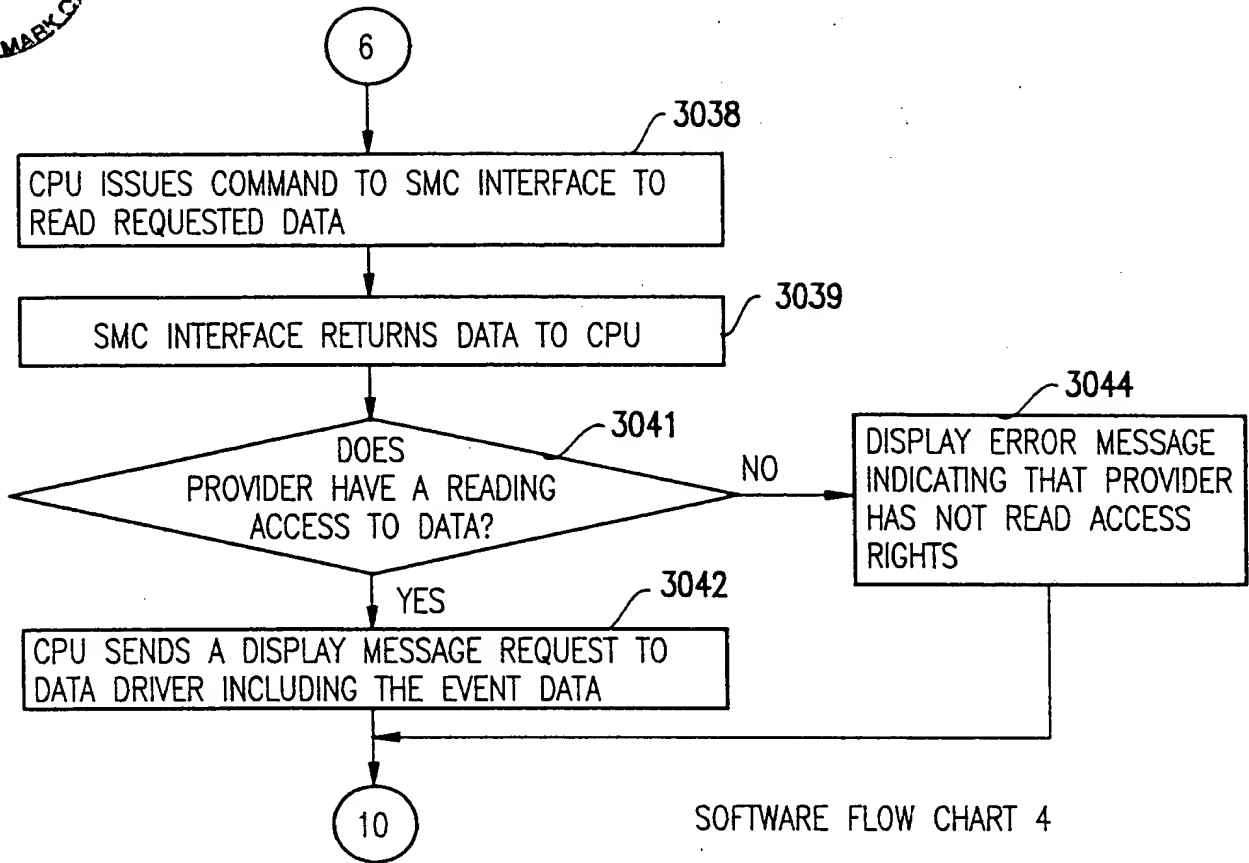


FIG.25

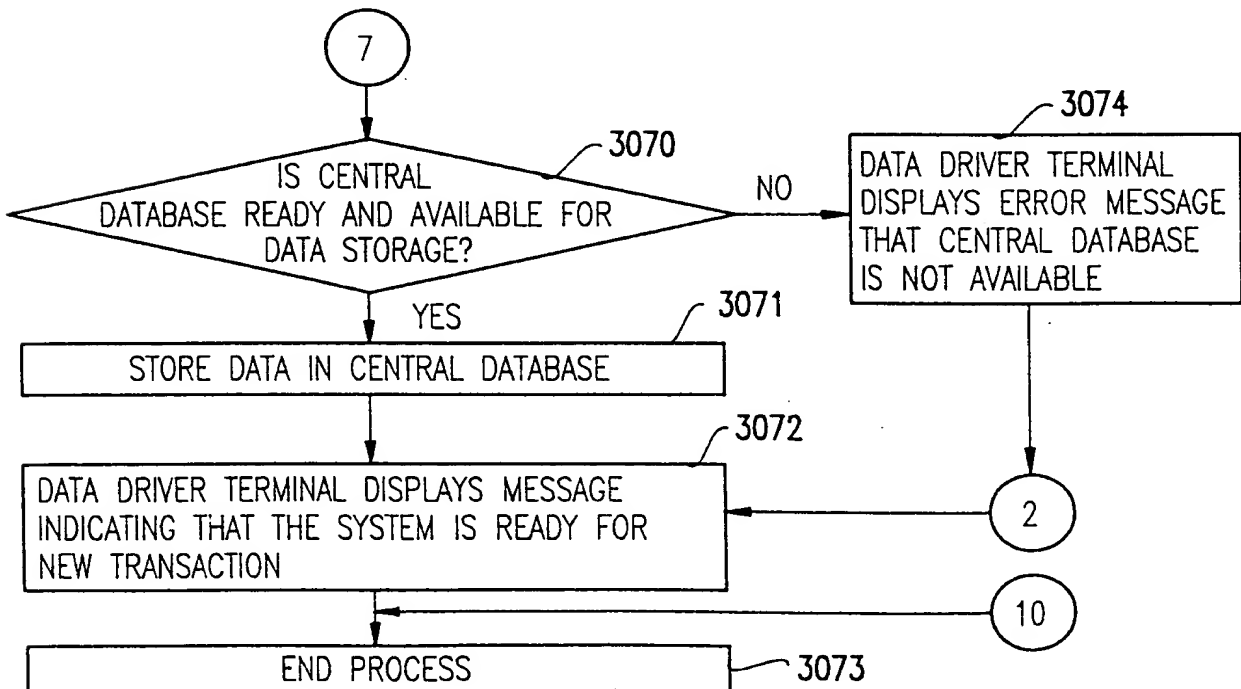
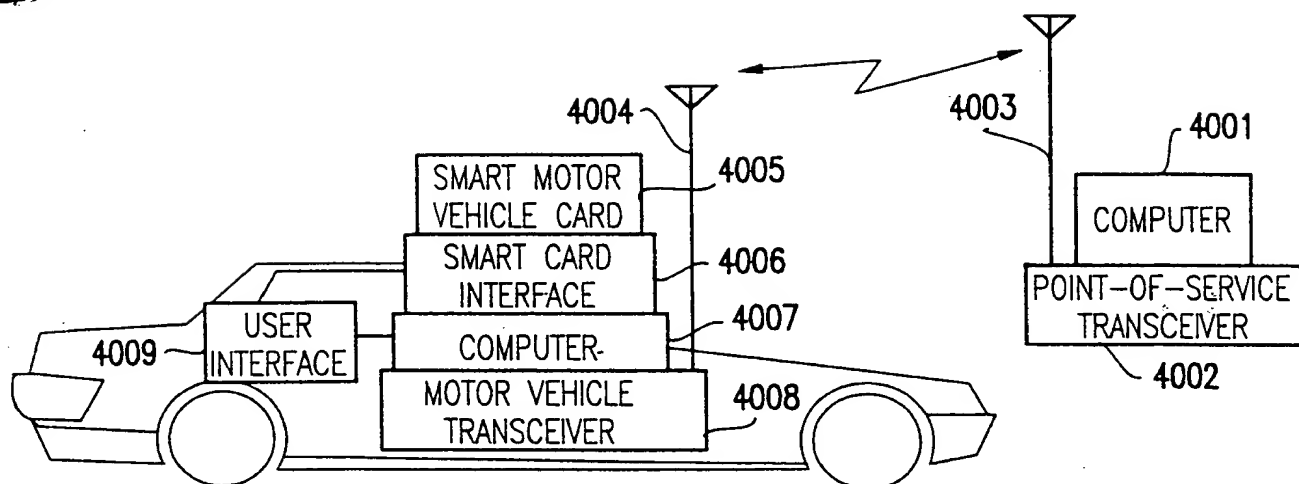
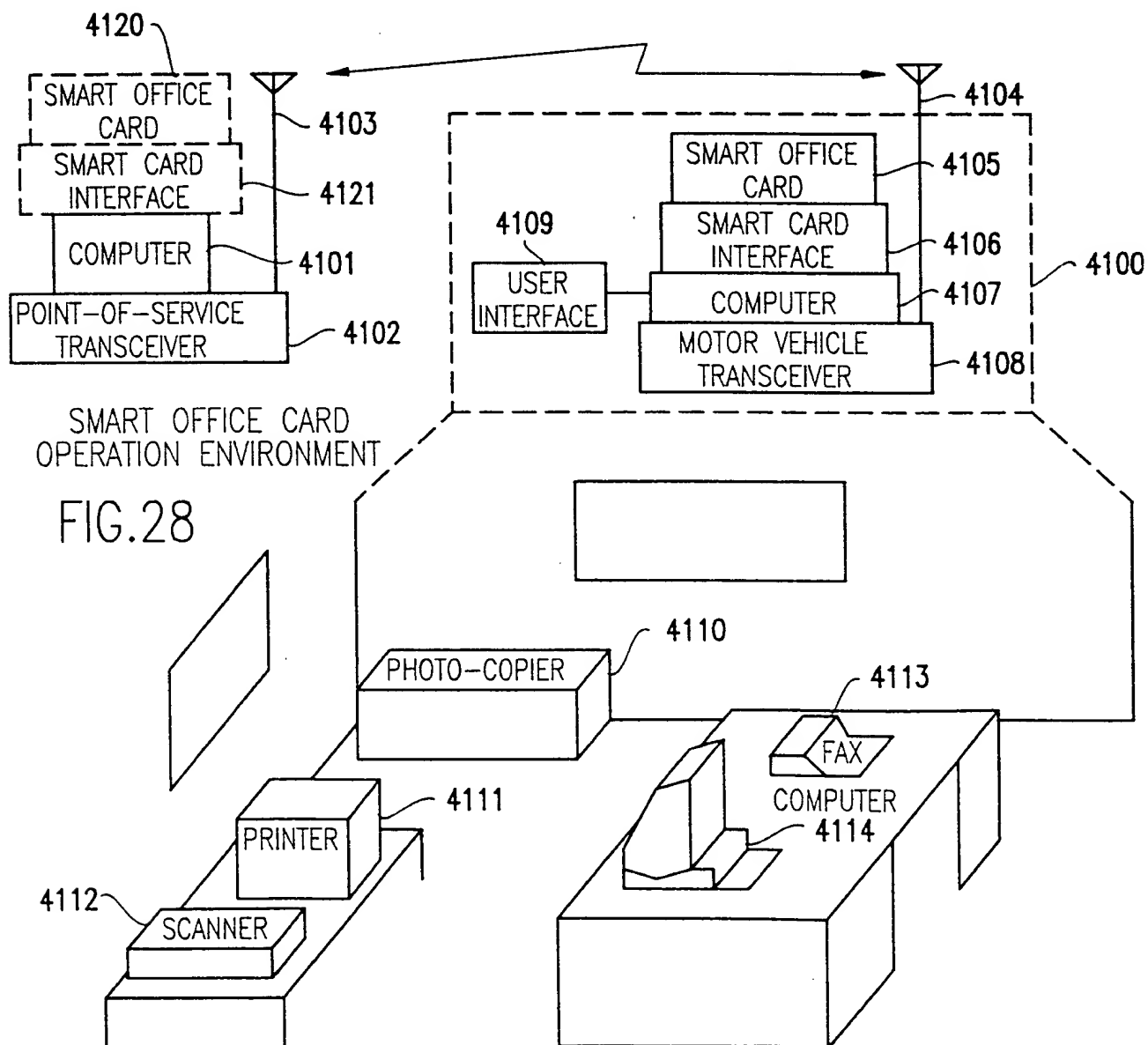


FIG.26



SMART MOTOR VEHICLE OPERATION ENVIRONMENT

FIG. 27



SMART OFFICE CARD OPERATION ENVIRONMENT

FIG. 28